Title (en)
Diversity reception method and diversity receivers

Title (de)
Verfahren zum Diversity-Empfang und Diversity-Empfängers

Title (fr)
Procédé de réception en diversité et récepteurs en diversité

Publication
EP 1045531 B1 20060607 (EN)

Application
EP 00303210 A 20000417

Priority
GB 9908675 A 19990415

Abstract (en)
[origin: EP1045543A2] A diversity receiver for receiving COFDM signals such as used in DAB or DVB-T has a soft-decision decoder in each of its receiving sections, to provide confidence values for the received decoded digital values, and combines the values from the receiving sections in dependence upon the confidence values. The receiver has two sections (42,44) the outputs of which are applied to a soft-decision combiner (62) which combines the signals in dependence upon confidence values available for each bit of the signal and received from the tuner/demodulators (42). The output is then applied to a Viterbi decoder (46). The combining can simply involve switching but preferably involves averaging. Synchronisation and squelching can be provided. The system can be used with spatial or polarisation diversity, or with antenna pattern diversity, in which case it can constitute an automatic rotator.

IPC 8 full level
H04B 7/08 (2006.01); H04B 7/02 (2006.01); H04B 7/10 (2006.01); H04B 7/12 (2006.01); H04L 1/06 (2006.01); H04L 27/26 (2006.01)

CPC (source: EP US)
H04B 7/0871 (2013.01 - EP US); H04L 1/06 (2013.01 - EP US); H04L 27/2647 (2013.01 - EP US); H04B 7/10 (2013.01 - EP US); H04B 7/12 (2013.01 - EP US)

Cited by
WO2005008907A1; WO2004036788A1; US7676202B2; US7155192B2; EP1296466A3; CN100350757C; KR100946289B1; KR100972109B1; EP1598956A3; EP1657830A1; FR2827728A1; EP1246458A3; US7809067B2; WO2006107965A1; WO2004100399A1; WO03009519A1; US7236548B2; EP1598956A2; US7957351B2; US8755357B2; US7319727B2; US7034893B2; US7610019B2; US7146134B2; US7929985B2; WO2005034419A1; WO03030403A1; US7457602B2; US8509723B2; US8818316B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1045543 A2 20001018; EP 1045543 A3 20020918; EP 1045543 B1 20060913; AT E329418 T1 20060615; AT E339816 T1 20061015; DE 60028444 D1 20060720; DE 60028444 T2 20061228; DE 60030620 D1 20061026; DE 60030620 T2 20070920; EP 1045531 A2 20001018; EP 1045531 A3 20030702; EP 1045531 B1 20060607; GB 9908675 D0 19990609; US 6792258 B1 20040914

DOCDB simple family (application)
EP 00303231 A 20000417; AT 00303210 T 20000417; AT 00303231 T 20000417; DE 60028444 T 20000417; DE 60030620 T 20000417; EP 00303210 A 20000417; GB 9908675 A 19990415; US 55073300 A 20000417